15/1

## Work Order ID 101677

May-13-13 1:11:26 PM

\*101677\*

Page 1

I4 ID.	D4005 042		e. Alla teltaria distendine di	Accept						. <del></del>				
Item ID: Revision ID:	D4095-043			месері		*N9	nn	<b>040</b>	100	<b>)</b> *	Setup	Start	*N:	S1*
	Wearplate As	sembly	10									Stop	*N	S2*
Start Date:	5/24/13	Start Qty: 6.00	*6*			Cust	Item I	D:						
Required Date: Reference:	5/24/13	Req'd Qty: 6.00	*6*	• •		Cust	omer:	·					đ	
Approvals:	Process Pla	an:	Date: 13-05-15	Tooling:			Da	ate:			Run	Start		R1*
							Da	ate:				Stop	*N	R2*
Sequence ID/ Work Center ID	)	Operation Description		Set U Run I		Too	ol ID	Tool #	Plan Code	Accept Qty	t Re		Reject Number	Insp. Stamp
Draw Nbr	Re	vision Nbr												
D4095	В											٠		
100				0.00	-	- · · · · · · · · · · · · · · · · · · ·				_			i	ONS
*100*		FLOW WATER JET								6			,	<b>95</b> / 13.0
Waterjet		Memo		0.00	<									
FLOW CNC Waterje	et	I-Cut as pe Dwg Rev:_ Prog Rev:_ 2-Deburr if	<u>B</u>		•									:
110		QC2- Inspect parts off n	nachine FAI/FAIB	0.00										DAG
*110* oc		Memo		0.00						6		<del></del>		(05) 13.
Quality Control														
												١	•	
120		QC8- Inspect parts - sec	ond check	0.00	O21	10				6				
*120* QC Quality Control		Memo		0.00	13. S	24				<u>v</u>				

NCR: Yes	s / No				WORK ORDER NON-O	CON	IFORM	MANCE / UPD	DATE	QA Closed:	Dat	te:	
Work Order:					DISPOSITION				AGAINST DE	PARTMENT	-	_	
Part No					Rework Scrap		ı	Skid-tube Machining	Crosstube Small Fab	4	Water Jet d. Eng. Coor.		Engineering Quality Other
NCR No	•				Use-as-is Work Order Update	]	inem	noforming Large Fab	Finishing Composite	Rec/Stor	e/Packaging Supplier		Other
Root				Descri	ption of work order update	I	nitial	Acti	ion	Sign &	· <u>·</u>		
Cause	Date	Step	Qty		or Non-conformance	Ch	ief Eng	Descri	iption	Date	Verification	1 <u> </u>	QC Inspector
oc/Data					•				-				
quip/Tooling													
perator													
/laterial	_												
etup	_											ļ	
)ther													
rocess													
upplier	_	 											
raining	_												
Inapproved								<u> </u>					
	<u>.</u>				F	AUL	T CATE	GORY					
Landing	Gear			_	General	_	i			٦			
_	Bending				Bend	Ш	Grain			Ovalized			ressure/Forced
	Centre No	ot Concei	ntric to	o/s	BOM/Route		Hardwa	re	L	Over/Under	tolerance	_	emperature/Cure
	Cracks				Broken/Damaged			ion Incomplete		Part Incorred	,	—	/eld
	Crushed/	Crimped			Burrs			tions Incomplete/U	Jnclear	Part Lost/Mi	ssing	\^	rong Stock Pulled
<u>_</u>	Cuffs			L	Contamination		Mainte		L	Part Moved			
L	Heat Trea	at		L	Countersink		Mislabe	eled		Positioned V			
	Inspection	n Strip in	Tube	ļ	Cut Too Short		Misread	į		Power Loss/	Surge	0	ther
	Ripples in	Bend			Drill Holes	L	Offset						
	Torque W	/aves in E	xtrusio	n 🗀	Drawing		Out of 0	Calibration					
	Turning S	equence			Finish		Out of S	Sequence					
	Wave/Tw	ist in Tul	эe		Folio	1	Outside	Dimensions					

DQA:

Date:

QC

Quality Control

Ensure joggle as per dwg D4095

150

Weld per dwg A/R Hardcoat S.S. Batch: M124/70 0.00 Large Fab

\*150\*

Large Fab

Memo

0.00

13-07-16 MAL

Large Fab

Date:
Date:
ROCESS
Water Jet Engineering
Eng. Coor. Quality
Packaging Other
Supplier
Verification QC Inspector
verification QC inspector
Pressure/Forced
lerance Temperature/Cure
Weld
ng Wrong Stock Pulled
ong
· —
rge Other
· —
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Wave/Twist in Tube

Folio

<b>Work Orde</b> <i>May-13-13 1:11</i>		101677		*101	677*					; 	Page 3
Revision ID:	D4095-0 Wearplate	43 Assembly		Accept	*N900	<b>040</b>	100	<b>)*</b> s	etup Sta	11	IS1* IS2*
Start Date: Required Date: Reference:	5/24/13 5/24/13	Start Qty: 6.00 Req'd Qty: 6.00	*6* *6*		Cust Item I Customer:	D:					
Approvals:	Process	Plan:	Date:	Tooling:	D:	ate:		R	lun Sta	!/	JR1*
	QC:		Date:	_ SPC (Y/N):	Da	ate:			Sto	<sub>ob</sub> */	IR2*
Sequence ID/ Work Center II	)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Numbe	Insp. r Stamp
160		QC10- Inspect visual per	QSI004- ground welds	0.00							DAS.
*160* QC Quality Control		Memo		0.00					<u> </u>	D-10-16	09
170 <b>*470</b> *		QC5- Inspect part compl	eteness to step on W/O	0.00				~	2 12		
*17 <b>0</b> *		Мето		0.00					6) B	OJ-1P	

1.80

\*180\* HandFinish

Quality Control

Hand Finishing

0.00

Memo

0.00

COAT ENTIRE TOP (CONCAVE) SURFACE WITH ROCKGUARD AS PER DWG
A/R ROCKGUARD BATCH: 125382

												DQA.	u	vale.	
NCR: Y	es/	/ No				WORK ORDER NON-C	O	NFORM	MANCE / UPI	DATE	0/	- A Closed:		ate:	
								ı			Q,	a Closed.		atc.	
Work Orde	٠r٠					DISPOSITION				AGAINST DE	EPA	RTMENT/	PROCESS		
WOIK OIG	-' -				<del></del>	Rework	1 - 1		Skid-tube	Crosstube	7		Water Je	,+ [	Engineering
Part N	J۸					Scrap		1 ,	Machining	Small Fab	1	Proc	d. Eng. Coo		Quality
	-					Use-as-is	1 !	6	noforming	Finishing	1		e/Packagin	-	Other
NCR N	lo.					Work Order Update	1 1	1	Large Fab	Composite	1	1100,010.	Supplie		H
	-						י נ				_				. •
Root					Descri	ption of work order update	$\Box$	Initial	Act	tion		Sign &			
Cause		Date	Step	Qty	,	or Non-conformance	Cr	nief Eng	Desci	ription		Date	Verificati	on	QC Inspector
Doc/Data															
Equip/Tooling							ļ					ŀ			
Operator							Ì								
Material										•				1	
Setup											1				
Other						•									
Process															
Supplier							}					·			
Training	Ш														
Unapproved			<u> </u>		<u> </u>		丄			-					
							AUI	LT CATE	GORY						-
Landi					_	General	_	٦			٦.				  -  -
	$\vdash$	Bending				Bend	$\vdash$	Grain		<u> </u>		/alized		$\vdash$	Pressure/Forced
	—	Centre No	ot Concei	ntric to	o/s	BOM/Route	$\vdash$	Hardwa		_	-	ver/Under			Temperature/Cure
	-	Cracks			<u> </u>	Broken/Damaged	$\vdash$	- '	ion Incomplete		-	rt Incorrec		$\vdash$	Weld
		Crushed/	Crimped		<u> </u>	Burrs	$\vdash$	-1	tions Incomplete/	Unclear	-1	rt Lost/Mi	ssing		Wrong Stock Pulled
	1	Cuffs				Contamination	1	Mainte	enance		ĮРа	rt Moved			

Mislabeled

Out of Calibration

Out of Sequence

Outside Dimensions

Misread

Offset

Countersink
Cut Too Short

Drill Holes

Drawing

Finish Folio Positioned Wrong

Power Loss/Surge

Other

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

<b>Work Ord</b> <i>May-13-13 1:1</i>		1677		*101	677*							Page 4
Item ID: Revision ID: Item Name:	D4095-043 Wearplate Ass	sembly		Accept	*N900	<b>040</b>	100	<b>)</b> *	Setup S	tart top	*N.	S1* S2*
Start Date: Required Date: Reference:	5/24/13	Start Qty: 6.00 Req'd Qty: 6.00	*F		Cust Item I Customer:	D:					IV.	
Approvals:		n:				ate:		]		tart Stop	*NF *NF	₹1* ₹2*
Sequence ID/ Work Center I 190 *1 QA*	D	Operation Description QC3- Inspect Part Finish		Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty		Reject Number	Insp. Stamp
Quality Control  200  *200* Packaging Packaging		Memo  Identify as per dwg & Sto	ock Location: F	B7. 3	<u> </u>			6×		<u>¢</u>	JL .	13/07/
210 * <b>21</b> 0* QC		QC21- Final Inspection -	Work Order Relea	0.00 0.00						3/	7/24	1
Quality Control		Michio										

pl(301-23

NCR: Ye	es /	No
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NCR: Ye	es / No				WORK ORDER NON-O	CON	FORM	MANCE / UPI	DATE	QA Closed:	Date	:
Work Order	:				DISPOSITION				AGAINST DE	-	· · · · · · · · · · · · · · · · · · ·	
Part No					Rework Scrap Use-as-is Work Order Update		t Therm	Skid-tube  Machining  noforming  Large Fab	Crosstube Small Fab Finishing Composite	-1	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
									`	1		
Root		,			ption of work order update	1	nitial	Act		Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chi	ef Eng	Descr	ription	Date	Verification	QC Inspector
oc/Data	_								-			
quip/Tooling	_											
perator												
/laterial	_											
etup	_					3						
ther						3,	*					
rocess						"						
upplier												
raining						1						
Inapproved						<u> </u>						
					F	AUL1	CATE	GORY				
Landing	g Gear				General					_	_	_
	Bending				Bend		Grain		<u> </u>	Ovalized	· <u>L</u>	Pressure/Forced
	Centre No	ot Concei	ntric to (	o/s	BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged		Inspecti	on Incomplete		Part Incorred	ct _	Weld
	Crushed/	Crimped			Burrs		Instruct	ions Incomplete/U	Jnclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs				Contamination		Mainte	enance		Part Moved		
Γ	Heat Trea	at			Countersink		Mislabe	eled		Positioned V	Vrong	
	Inspectio	n Strip in	Tube		Cut Too Short		Misread	d		Power Loss/	Surge	Other
	Ripples in	n Bend			Drill Holes		Offset		<del></del>			
	Torque W	Vaves in E	xtrusio	n	Drawing		Out of 0	Calibration				
	Turning S	equence			Finish	П	Out of S	Sequence				
	Wave/Tw	vist in Tul	oe .		Folio		Outside	Dimensions				

DQA:

Date:

## **Picklist Print**

May-13-13 1:11:25 PM

Work Order ID:

101677

Parent Item:

D4095-043

Parent Item Name:

Wearplate Assembly

**Start Date:** 5/24/13

Required Date: 5/24/13

Page 1

Start Qty: 6.00

Required Qty: 6.00

**Comments:** 

IPP Rev:A nerw issue DD 10.04.26 verified by:EC

Component Item ID/ Item Name M304S16GA	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route	Unit of	Qty on	Qty per Kit	Total	Otv	Date	Status
M304S16GA	<u></u>			Documon	Lucation	Seq ID	Measure		Çiy pir ran	Qty	Qty Issued	Issued	Status
		Purchased	No			100	sf	474.1714	2.275	14.36842	1 ,		
304/316 Sheet .063											- N1	13.05	<u>'45</u>
				<b>Location</b>		Loc Qty	Lo	c Code					
				MAT020		474.1713688							
				12224	45	0.1713688							
				12313	36	140.8							
				12442	28	28.9							
				1245	72	48.3							
				12559	99	256							

NCR:	Yes	1	Nο

										DQA:	Date	:
NCR: Ye	es / No				WORK ORDER NON-O	CON	FORM	MANCE / UPDATE		•		
										QA Closed:	Date	:
Nork Order	· <u>·</u>				DISPOSITION			AGAINST	DEP	ARTMENT	PROCESS	
Part No	)				Rework Scrap Use-as-is		M Therm	Skid-tube Crosstube Wachining Small Fab noforming Finishing			Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other
NCR No	o		····	······································	Work Order Update	¹ I		Large Fab Composite	Ш		Supplier	
Root		T		Descri	ption of work order update	İr	nitial	Action		Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chi	ef Eng	Description		Date	Verification	QC Inspector
oc/Data quip/Tooling												
perator									ļ			
/laterial	_											
etup		1					,		1			
Other												
rocess	_											
upplier	_					,						
raining	_						,					
Inapproved		<u> </u>						CONY	1		<u> </u>	
		-4."				AUL	T CATE	GURY				
Landin F	<del></del>			Г	General Bend	П	Grain		$\Box$	Ovalized	Г	Pressure/Forced
F	Bending	lot Conce		\	BOM/Route	$\vdash$	Hardwa	ro .	$\mathbf{H}$	Ovanzeu Over/Under	tolerance	Temperature/Cure
<b> -</b>	Cracks	ot Conce	ntric to t	)/3  -	Broken/Damaged	$\vdash$		on Incomplete	-	Part Incorre		Weld
<u> </u>	_	/Crimped		-	Burrs			ions Incomplete/Unclear	-	Part Lost/Mi	_	Wrong Stock Pulled
-	Cuffs	Cimpea		-	Contamination	-	Mainte	•	$\vdash$	Part Moved		
 	Heat Tre	at		-	Countersink	$\vdash$	Mislabe		Н	Positioned V	Vrong	
·	-	on Strip in	Tube	<u> </u>	Cut Too Short	$\vdash$	Misread		$\vdash$	Power Loss/		Other
<b> </b>	Ripples	-		-	Drill Holes	$\boldsymbol{\vdash}$	Offset		Ш		·	_1
F		Waves in	Extrusio	,	Drawing	H		Calibration	•			
ŀ		Sequence		<b> </b>	Finish		Out of !	Sequence	•	.,		
<u> </u>		wist in Tu			Folio		ì	Dimensions	•			

Wave/Twist in Tube

DART AEROSPACE LTD	Work Order:	101677
Description: Wearplate	Part Number:	D4095-3
Inspection Dwg: D4095 Rev: B		Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.19	+0.005/-0.001	0.193			V	TKA-01
0.300	+/-0.010	0.303	1		V	
0.300	+/-0.010	0.302			<b>V</b>	
2.432	+/-0.010	2.435			<b>V</b>	
3.227	+/-0.010	3.222			<b>V</b>	
4.06	+/-0.030	4.052			V	
2.50	+/-0.030	2:50	V		T	TKM-03 Prad-WJ-02
4.98	+/-0.030	4.979	/		V	
8.43	+/-0.030	8.340	1		1/	Prod-WJ-02
11.50	+/-0.030	11.50			T	
21.750	+/-0.010	21.750	/		T	
3.500	+/-0.010	3.500	/		T	
12.22	+/-0.030	12.22	1		T	
6.000	+/-0.010	6.00	V		T	
12.100	+/-0.010	12.100	/		T	
21.00	+/-0.030	21.00	/		T	
30.000	+/-0.010	30.000	/		7	
36.000	+/-0.010	36.000	1		7	
38.88	+/-0.030	38.88	/		7	
0.063	+/-0.010	0.059	/		V	
			242			

Measured by: MM	Audited by: 27	Preliminary Approval:
Date: 13.05.23	Date: 13 5 2 9	Date:

Rev	Date	Change	Revised by	Approved
A	11.02.18	New Issue P/O D4095-043	KJ ID	
В	11.11.08	Dimensions updated per Dwg Rev B	KJ 😽	







